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GE Power Systems

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Unit Profile

Turbine Optimizer | Packaged Offerings | Technical Documents | M & D | Quote Bin - Buy
 Choose a Site: MY STATION | Choose a Unit: 006 - MY7FAGT | gw — 103

Unit / Outage Information			
Correct any data entries in the data below - click update to effect your changes			
Next Outage Dates	MM	DD	YY
MAJOR	02	02	2001
HOT GAS PATH			
COMBUSTION			
Operational Cycle	Combined Cycle		
Loading Cycle	Mid-Range		
Fuel Type	Liquid Natural Gas		
Emission Control	Dry Low NOx 2.6		
Customer ID	008	Unit #	160108160 Connected
Output Capacity	160108160 Connected	Availability (%)	100% Since 1994
On Hours	8000	Unit Starts	147
COG	00	11	1994
Reading Date	Outfit Date		
Unit Type	Gas Turbine		
Frame Type	Combustion Type		
Condition	Operable		

101
100
102

110
108
111

105
106

Notes on Fleet Performance comparison figures (OUTPUT HEAT RATE, AVAILABILITY, and RELIABILITY)

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Reliability, Availability & Missed Generation

四庫全書

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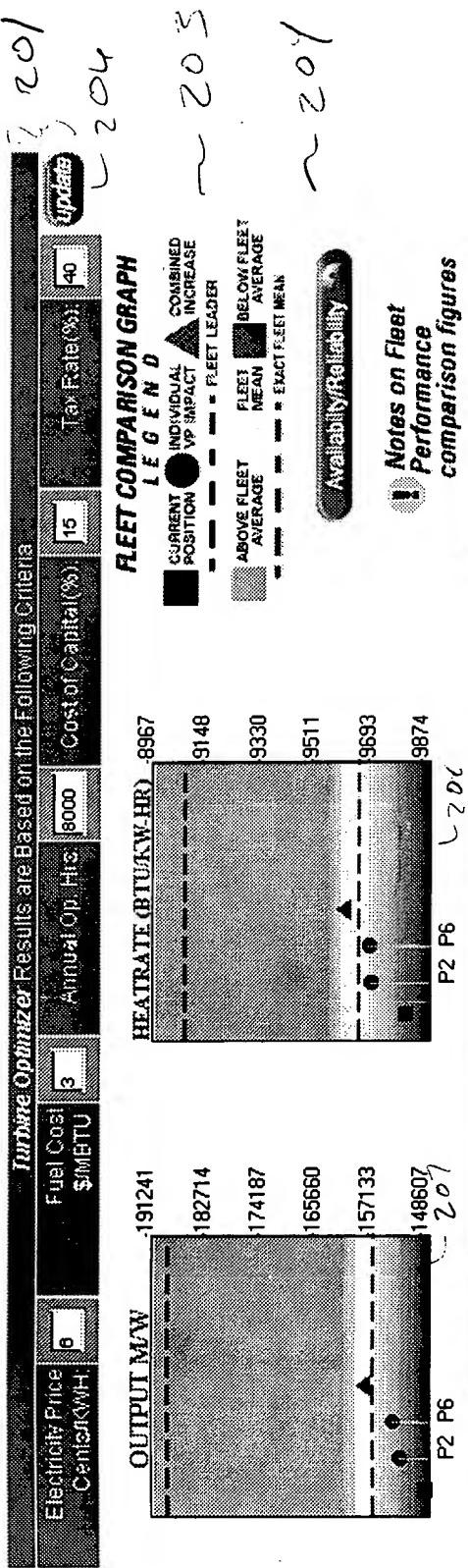


Fig 2

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Uprate Performance Impact Matrix

Customer Name	SN	Current Rating	S1B, S1S	S1N, S1S	S1B, S1N	88 CGC/ HPP	S2B, S2S	S3B, S3S	S2B, S2S, S3B, S3S	Sig2, Sig3	Performance Impact (parts only)
FCM-E	297031	Output	163272	0.64	0.31	0.70	0.13	0.00	0.08	-0.03	0.09
T1=2420, IGV=90		HR	9623	-0.51	0.02	-0.55	0.36	0.00	0.02	0.07	0.03
FCM-H	297112	Output	165151	0.54	0.21	0.70	0.03	0.00	0.08	-0.03	0.09
T1=2420		HR	9461	-0.51	0.02	-0.55	0.36	0.00	0.02	0.07	0.03

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Upate Performance Impact Matrix

Customer Name	SN	Current Rating	S1B, S1S	S1N, S1S	S1B, S1N	88 CGC/ HPP	S2B, S2S	S3B, S3S	S2B, S2S, S3B, S3S	Sig2, Sig3	Performance Impact (parts only)
FCM-E	297031	Output	163272	0.64	0.31	0.70	0.13	0.00	0.08	-0.03	0.09
T1=2420, IGV=90		HR	9623	-0.51	0.02	-0.55	0.36	0.00	0.02	0.07	0.03
FCM-H	297112	Output	165151	0.54	0.21	0.70	0.03	0.00	0.08	-0.03	0.09
T1=2420		HR	9461	-0.51	0.02	-0.55	0.36	0.00	0.02	0.07	0.03

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Gas Turbine Optimizer - Netscape

Outage Optimizer SW

NY STATION

delete · feedback · help · EXIT

Selected Unit

Unit: 5. 10. Major Information

Profile Optimize Packages

Event Detail

Name: DEMO
Start: 2000-09-26
End: 2000-09-30

enter

Gas Turbine Optimizer

Electricity Price: 4 (\$/MWh)
Fuel Cost: 3 (\$/MMBtu)
Op. Hrs: 8000 (annual)

Capital Costs: 12 (%)
Tax Rate: 40 (%)

Turbine Optimizer Key

Current Performance Level
Historical Impact of all Packages
Considered Impact of all Packages
Fleet Leader
Last Fleet Mean
Average Performance
Below Average Performance

Change Graph View To Change

AVAILABILITY

Turbine	Availability (%)
Stage 1 Turbine Optimizer Package I	~80%
Stage 1 Turbine Optimizer Package IV	~70%
Stage 1 Turbine Optimizer Package III	~60%
Stage 1 Turbine Optimizer Package II	~50%

RELIABILITY

Turbine	Reliability (%)
Stage 1 Turbine Optimizer Package I	~80%
Stage 1 Turbine Optimizer Package IV	~70%
Stage 1 Turbine Optimizer Package III	~60%
Stage 1 Turbine Optimizer Package II	~50%

Recommended Value Packages

Number	Package Name	Load Time	Output	Heat Rate	Estimated Revenue per Year	Net Present Value	Years to Payback	Value Impact
<input checked="" type="checkbox"/>	FV1N71FA-- Stage 1 Turbine Optimizer Package I	170	2.16	-1.02	\$643,767	\$1,870,000	1.1	P2
<input type="checkbox"/>	FV1O71FA-- Stage 1 Turbine Optimizer Package IV	170	0.97	-0.47	\$291,423	\$670,000	1.8	P2
<input type="checkbox"/>	FV1P71FA-- Stage 1 Turbine Optimizer Package III	170	1.64	-0.97	\$557,379	\$1,580,000	1.1	P4
<input type="checkbox"/>	FV1Q71FA-- Stage 1 Turbine Optimizer Package II	170	1.10	-0.40	\$241,211	\$1,010,000	1.2	P3

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WWW ENGINE DESIGN

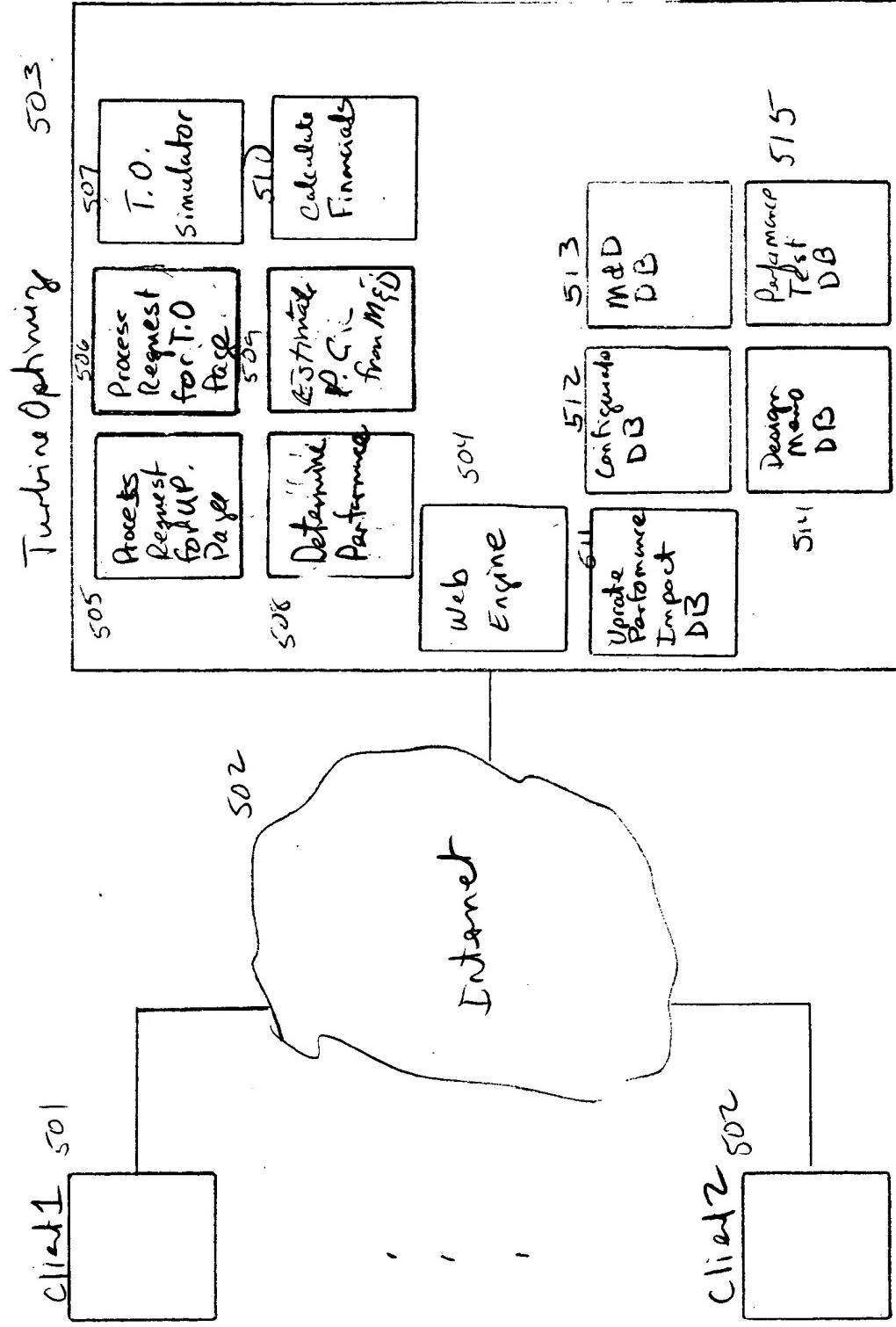


Fig 5

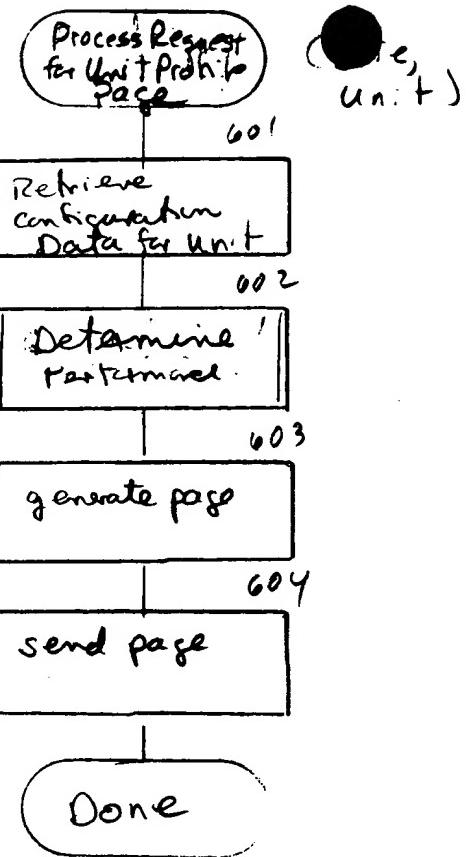
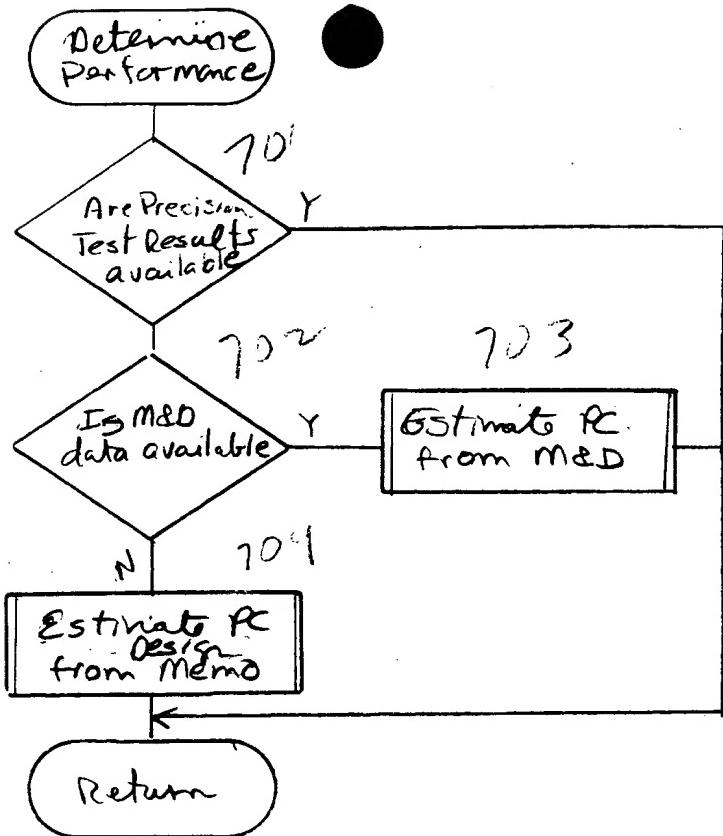


Fig 6



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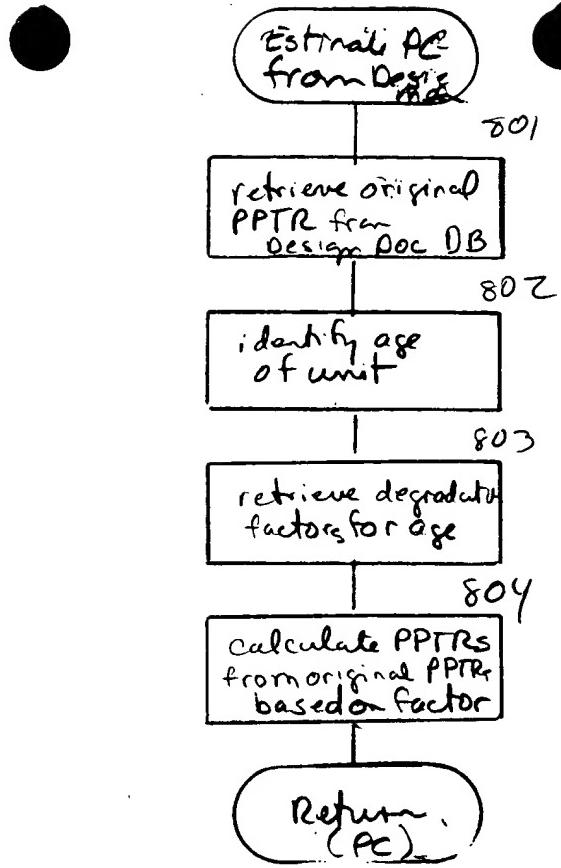


Fig 8

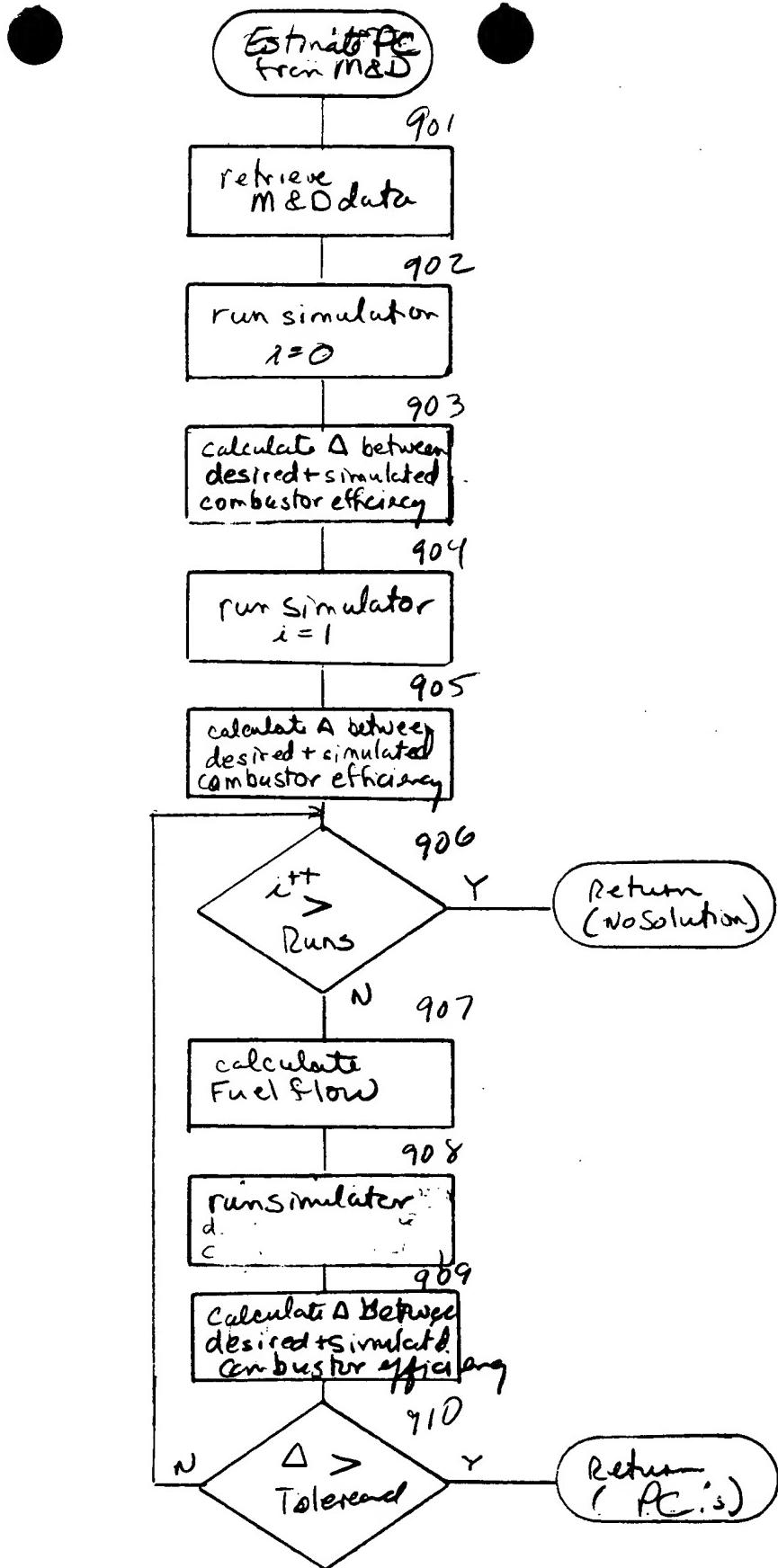


Fig 9

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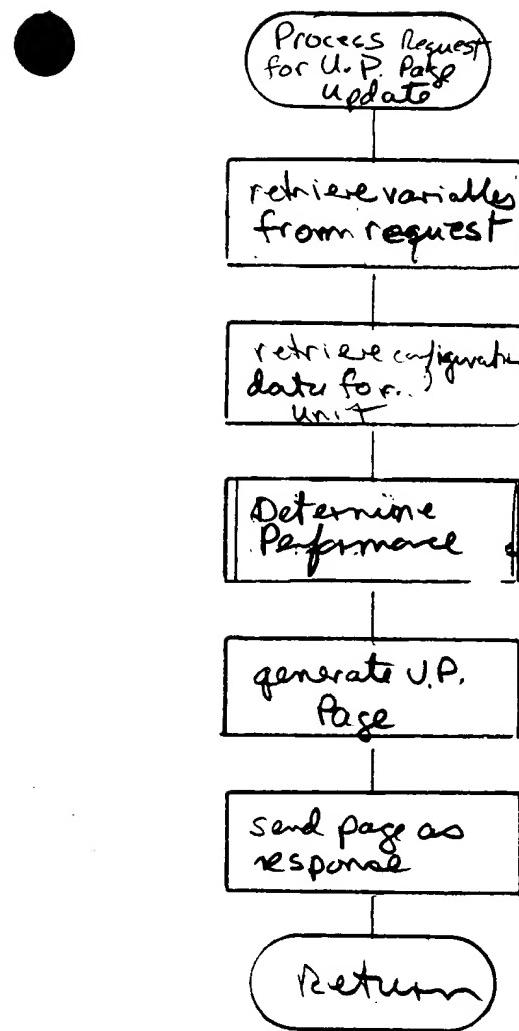


Fig 10

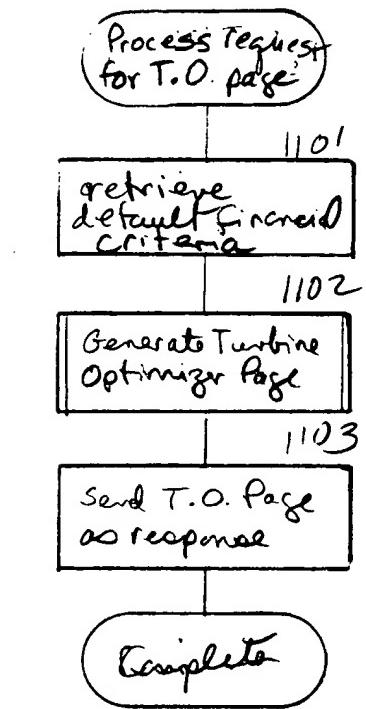


Fig 11

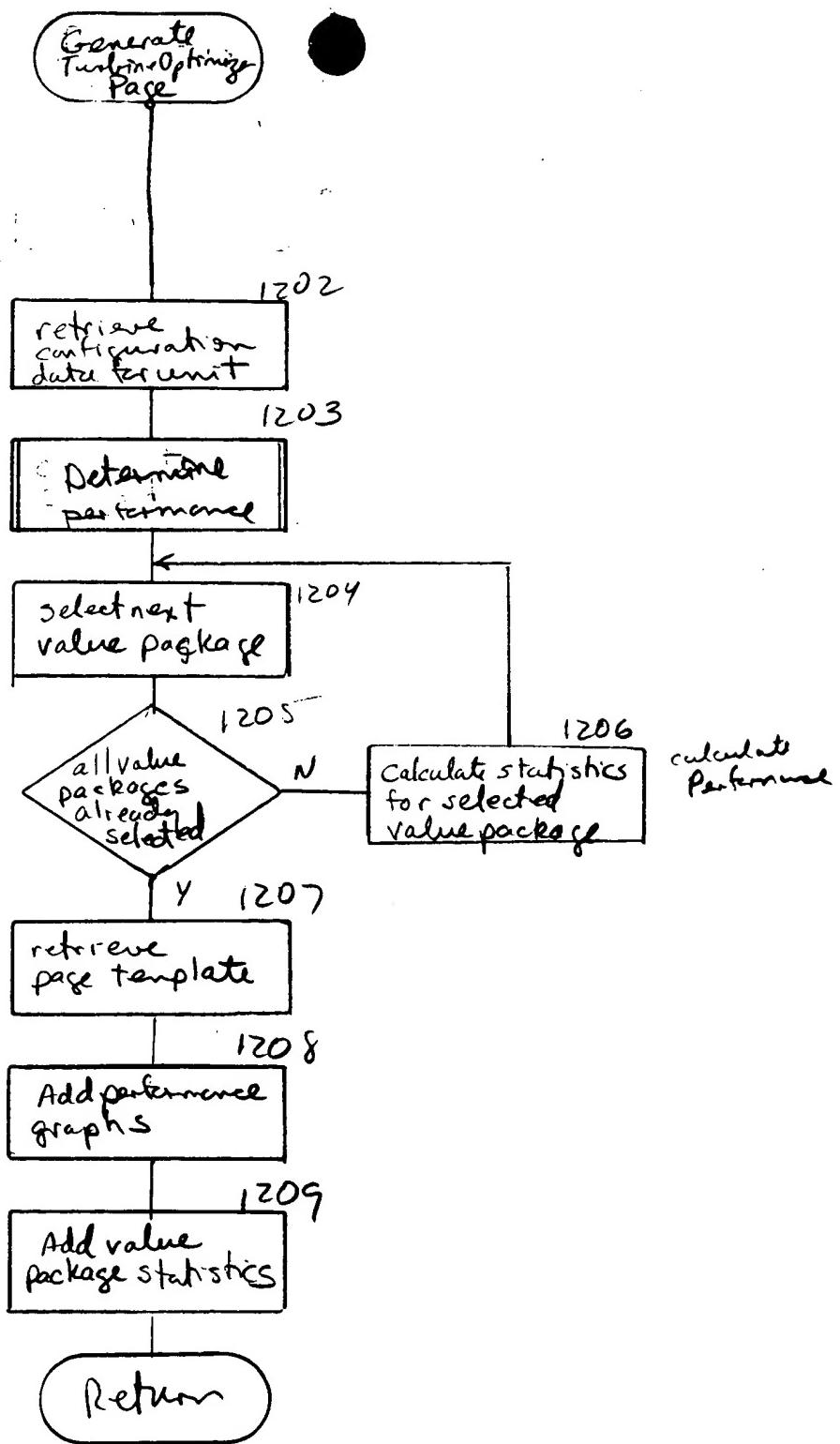


Fig 12

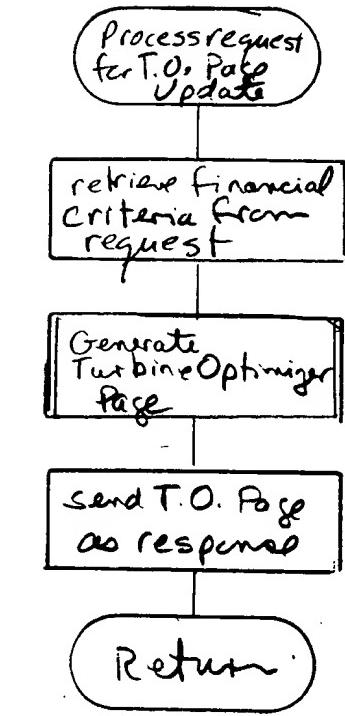


Fig 13